Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



AN OPEN LETTER OF INFORMATION ON MUSKRATE

The things that are most necessiry for the success of a muskrat form are:

1. Food Pupply or Pasturare

There should be some food that the muskrats can get at during the winter beneath the ice. The Yellow Water "ily and Bulrush will usually grow in sufficiently deep water so that they answer this purpose of a winter food supply. Muskrats also feed on class during the winter. The source of food during the balance of the year, spring, summer and fall, is the Cattail, "weet Flag, WildRice, Wapato or Duck Potato, sometimes called "Muskrat Potato", are all eaten in addition to the two already named. The tubers of the Wapato are sometimes found in muskrat boases where they are stored by the rats as a winter food supply.

- the muskrats should have suitable living conditions. This means that there must be a certain amount of grasses or cover, which of course would be afforded to a considerable extent by the Wild pice. Cattail. Sweet Flag, Bulrush and other growth that would be planted for food. They must also have suitable material for building their houses or banks in which they may dig and make their dens. Any high banks or ridges along an overflow could undoubtedly be used by muskrats for their dens. Wild Rice, Cattail, Pulrushes and Pweet Flag all afford considerable material for building houses in addition to cover and food.
- it is important that a sufficient depth of water be maintained during the winter so that the ice does not freeze down to the bottom, for muskrats go out beneath the ice from their living quarters to forage beneath the ice for a food supply. The freezing to the bottom cuts off the food supply of the muskrats. During the winter they come out in search of food and it is lack of food more than anything else that causes the muskrats to run away or leave. Some winters you no doubt have noticed the muskrats will be running all over a marsh and migrate across the fields. This is because of the ice freezing down to the bottom. Buskrats then get to be what we call "runners".
- 4. With these other things taken care of, there still remains the question of protection for the muskrats. Probably the greatest matural enemy of the muskrat is the mink. They kill whole families of muskrats. Therefore, it should be made a rule to trap or shoot a mink on sight any time during the year, if you desire to make a success of the muskrat proposition, for the two will not get along together at all. Also, because of the mink destroying ducks and any other birds that they may come across, we believe that mink should be given no protection rather there should be a bounty paid on his scalp. The only other problem of protection that one has to deal much with, aside from the ice freezing to the bottom and driving the muskrats out during the winter in search of food, are sudden rises of water during the spring months which often drive out the rats. Of course, stray dogs and possibly wolves have a habit of digging into the houses and destroying both the old and young.

needed to make a muskrat farm ideal. Answering your questions, I should think that overflowed land with a certain amount of shallow water from one to three feet deep and with channels up to five or six feet deep here and there throughout the area, providing it had banks for muskrat dens, and cover and food were introduced, would make a good place for muskrats. I would start the food and cover supply first, because this is the first essential and the plants will do better before the muskrats become numerous — in other words, they would get a better start. As the food supply becomes more abundant, conditions are such that the area will support a larger number of muskrats, and if no trapping is carried on a few seasons to begin with, the entire area will become plentifully stocked with muskrats, providing the enemies of muskrats mentioned above are kept under control. Possibly some of the many islands you mention have high banks in which muskrats can build their dens.

It is probable that the rats already in the territory will spread and increase, especially if they were not trapped for two or three seasons, and the food supply and conditions were suitable to permit this. Conditions being favorable as outlined above, it is reasonable to believe that muskrats that have for various reasons been driven cut of wai other waters would stop and stay on these lands when they came to them. It is probable that such food plants as are native to the region would gradually spread to parts of the overflow, but this is often a slow process, and can be hastaned by planting small beds of the plants needed for food and cover here and there on the property.

Regarding the raising and lowering of the water as mentioned above; the unfavorable point about this is that the young rats are drowned out by the waters rising in the spring. A rise or fall of two feet in depth of water during the growing season would possibly not be seriously injurious to the plants, but this is about the limit. However, during the winter and spring up until about June 1st, when the flood usually occurs, the water may be almost any depth without injuring the plants that are dormant during that time.

Yours for a profitable muskrat marsh, CLYDE B. TERRELL TERRELL'S AQUATIC FARMS & NURSERIES Oshkosh, Wisconsin. U. S. A.

E/ Hardison Patton, Chapter on Muderate The number of muckrata that may be raised in any sized space A natural food smooth should exist during the soring and summer, to give the young growing animals something to work for, contributing to needed exercise to develop their comes and body enclosure around the watered portions, and in the water. Wild rice, water lilies, cat-tails, etc., are very good for the water venetation. *** Jerusaie. Artichores** are also very good for this purpose; they all need no furner attention after they have once been planted in returnily rich or well fartilized coil; the masker rate will die them out any they want them during the winter. "The height of the breeding season for Auskrate is in the early spring, but they breed to come extent, during loost any ime of the year. Toung ones not more than five or six days old have been seen in their ments in February. Mustrate usually breed from three to rive sizes a year:*** it is believed that at least four litters are average under this system, in which the number of sound would be true three to fifteen each or an average of spout sight. The young of each or an everage of spout sight in the fall of the same year in which they are born. The young in all sidemaner litters are considerably greater in number than the are in apping fall or winter litters.

D. 110 They mature sexually at about four months of age when they will "muskrats do not reach a #superior" prime condition un il the soring tollowing their birth neither up the strain full growth before that Muskrat raising is a gold mine for any to who will earnestly disvote his errorts to its unlimited possibilities. The early production is enormous and nearly all profit. ***
FEEDING
Muskrats are vegetarians. They live on grass grass roots, water plants
of all kinds, tender bark of twigs small shrubbery, tender bark of
pine sprouts, alder or willow. They will eat almost any kind of veg-

